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BRUHAT BANGALORE MAHANAGARA PALIKE

Improvements to Roads and Drains From National Highway (Airport Road) near Military Farm Up to Amco Layout In Kodigehalli Ward No.08

(4)

008-17-000042

Detailed Project Report

October 2016

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
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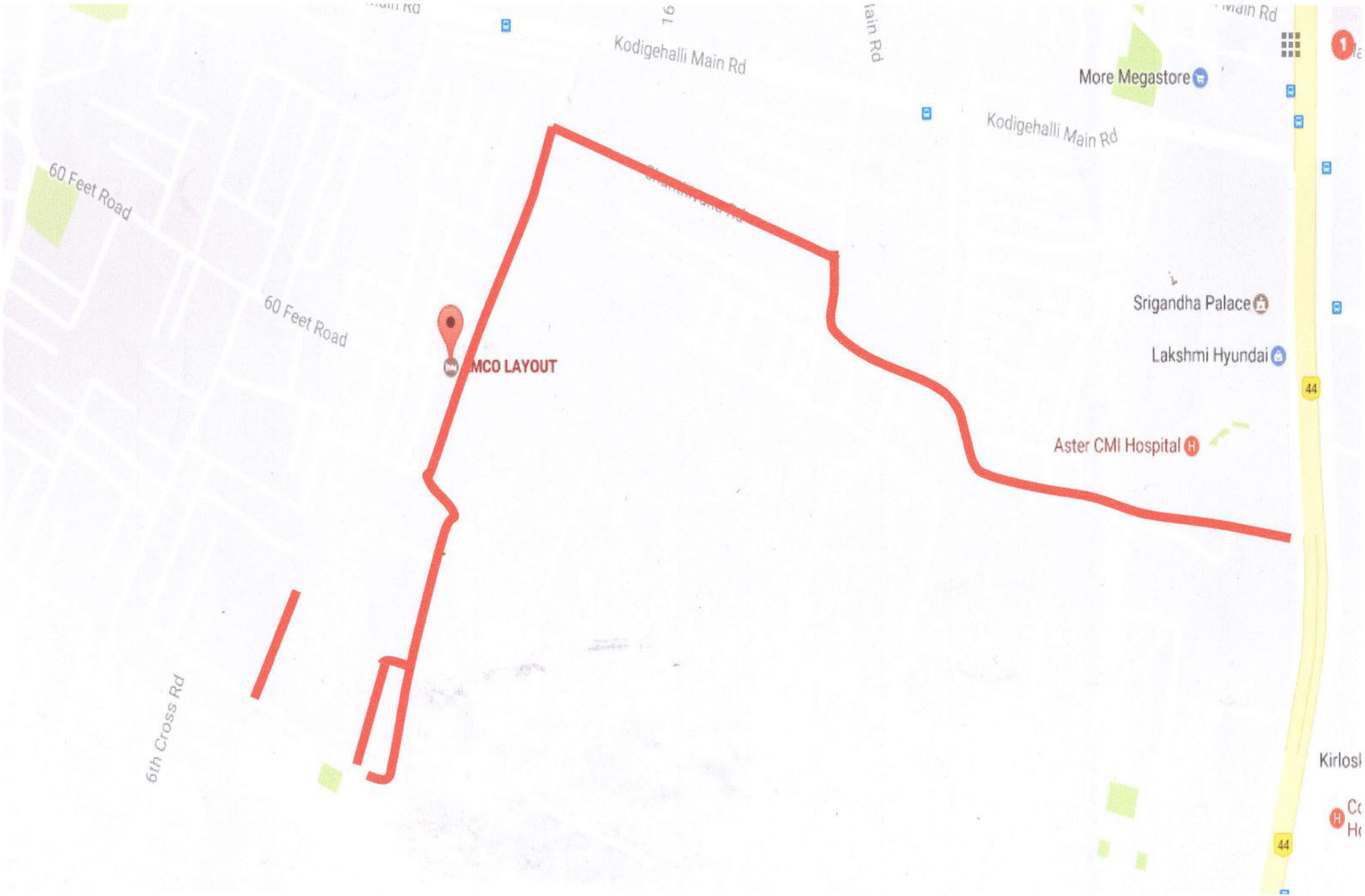
KEY MAP –National Highway (Airport Road) near Military Farm Up to Amco Layout



BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Improvements to Roads and Drains From National Highway (Airport Road) near Military Farm Up to Amco Layout In Kodigehalli Ward No.08

Est Cost: =200 Lakh

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)								
	BS Slab Drain	Sqm							
	From bellary road up to Amco layout								
	ch 0-400		1	120.00	1.80	--	216.00		
	CH 400-1000		2	180.00	1.80	--	648.00		
	ch 1000-1200		2	50.00	1.80	--	180.00		
	ch 1200-1650		1	135.00	1.80	--	243.00		
	ch 1750-1980		2	69.00	1.80	--	248.40		
	Hebbal sarovara cross roads		2	50.00	1.80	--	180.00		
	Consider 20% Missing slabs and damaged slabs						-343.08		
							1372.32	80.56	**110554.10**
2	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	From bellary road up to Amco layout	Cum							
	Desilt								
	ch 0-400		1.00	400.00	0.65	0.70	182.00		
	CH 400-1000		2.00	600.00	0.65	0.70	546.00		
	ch 1000-1200		2.00	200.00	0.65	0.70	182.00		
	ch 1200-1650		1.00	450.00	0.65	0.70	204.75		
	ch 1750-1980		2.00	230.00	0.65	0.70	209.30		
	Hebbal sarovara cross roads		2	150.00	0.65	0.70	136.50		
	Culverts		7.00	7.00	1.50	1.30	95.55		
	New Drain								
	0-400		1.00	400.00	1.10	1.05	462.00		
	ch 1200-1650		1.00	450.00	1.10	1.05	519.75		
	Hebbal sarovara cross roads								
			2.00	140.00	1.10	1.05	323.40		
	over burden Earth towrds defence land		1.00	775.00	3.10	1.50	3603.75		
							6465.00	192.92	**1247227.80**
3	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)								
	Bed Concrete	Cum							
	Culverts		7.00	7.00	1.50	0.15	11.03		
	New Drain								
	0-400		1	400.00	1.10	0.10	44.00		
	ch 1200-1650		1	450.00	1.10	0.10	49.50		
	Hebbal sarovara cross roads								
			2	140.00	1.10	0.10	30.80		
							135.33	5348.76	**723820.95**
4	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW, P&IWTD SR 2016-17)								

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
	Bottom Slab	Sqm							
	Culverts		14.00	7.00	--	0.25	24.50		
							24.50	244.86	**5999.07**
5	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.15, I.No.4.31 of PW,P&IWTD SR 2016-17)								
	Side Walls	Sqm							
	Culverts		28.00	7.00	--	0.90	176.40		
							176.40	310.58	**54786.31**
6	Providing laying plain/ reinforced cement concrete M20 Grade for Box Drain walls of thickness 10cm to 20cm including centering shuttering for work etc. complete as per approved drawing and design MORTH specification No. 1500, 1700, 2200. (P.No.265, I.No.37.59.2 of PW, P&IWTD SR 2016-17)								
		Cum							
	New Drain								
	Bottom Slab								
	0-400		1	400.00	0.90	0.15	54.00		
	ch 1200-1650		1.00	450.00	0.90	0.15	60.75		
	Hebbal sarovara cross roads								
			2.00	140.00	0.90	0.15	37.80		
	Side walls								
	0-400		2.00	400.00	0.15	0.80	96.00		
	ch 1200-1650		2.00	450.00	0.15	0.80	108.00		
	Hebbal sarovara cross roads								
			4.00	140.00	0.15	0.80	67.20		
							423.75	11032.48	**4675013.40**
7	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&IWTD SR 2016-17)								
	Drain	Cum							
	Bottom Slab								
	Culverts		7.00	7.00	1.40	0.25	17.15		
	Side Walls								
	Culverts		14.00	7.00	0.25	0.90	22.05		
							39.20	6231.74	**244284.21**
8	KSRB - 4.9.2: Providing TMT steel reinforcement Fe500 for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (P.No.17, I.No.4.46.2 of PW, P&IWTD SR 2016-17)								
	Consider 50Kgs/cum for only RCC Qty	Tonne		423.75	0.050	--	21.19		
	Consider 80Kgs/cum for only RCC Qty			39.20	0.080	--	3.14		
							24.33	59413.00	**1445518.29**
9	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)								
		Sqm							
	For new drain								
	Consider 20% Missing slabs and damaged slabs						343.08		
							343.08	665.68	**228381.49**

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
10	Providing and fixing **RCC Precast cover slab of 100mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Cover Slab	Sqm							
	0-400		1.00	400.00	0.90	--	360.00		
	ch 1200-1650		1.00	450.00	0.90	--	405.00		
	Hebbal sarovara cross roads								
			2.00	140.00	0.90	--	252.00		
							1017.00	1698.00	**1726866.00**
11	Providing and fixing **RCC Precast cover slab of 250mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Culvert Slab	Sqm							
	Culverts		7.00	7.00	1.50	--	73.50		
							73.50	4764.00	**350154.00**
12	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)								
	Road Portion	Cum							
	ch 400-450		1.00	50.00	6.50	0.50	162.50		
	ch 1265-1465		1.00	400.00	6.50	0.50	1300.00		
	Hebbal sarovara cross roads								
			1.00	140.00	5.00	0.30	210.00		
							1672.50	154.76	**258836.10**
13	KSRRB M300-59.1. Loosening of the ground upto a level of 500mm below the subgrade level, watered, graded and compacted in layers to meet requirement of Table 300-2 for subgrade construction complete as per specifications. Case-I:Compacting original ground supporting subgrade, (which includes watering charges & compaction by vibratory roller) MORTH Specification No. 305.3.4(P.No.149, I.No.19.65 of PW, P&IWTD SR 2016-17)								
	Road Portion	cum							
	ch 400-450		1	50.00	6.50	0.50	162.50		
	ch 1265-1465		1	400.00	6.50	0.50	1300.00		
	Hebbal sarovara cross roads								
			1.00	140.00	5.00	0.30	210.00		
							1672.50	55.12	**92188.20**
14	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3(P.No.149, I.No.19.64 of PW, P&IWTD SR 2016-17)								
	Road Portion	Sqm							
	ch 400-450		1	50.00	6.50	--	325.00		
	ch 1265-1465		1	400.00	6.50	--	2600.00		
	Hebbal sarovara cross roads								
			1	140.00	5.00	--	700.00		
							3625.00	5.30	**19212.50**
15	KSRRB 500-3. Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100 m. sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH specification clause 501(P.No.161, I.No.19.64 of PW, P&IWTD SR 2016-17)								
	Road Portion	Sqm							
	ch 250-300		1	50.00	6.50	--	325.00		
							325.00	92.22	**29971.50**

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
16	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305(P.No.148, I.No.19.60 of PW, P&IWTD SR 2016-17)								
	Road Portion								
	ch 400-450		1	50.00	6.50	0.30	97.50		
	ch 1265-1465		1	400.00	6.50	0.30	780.00		
							877.50	320.12	**280905.30**
17	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)								
	Road Portion	Cum							
	ch 400-450		1.00	50.00	6.50	0.25	81.25		
	ch 1265-1465		1.00	400.00	6.50	0.25	650.00		
	Hebbal sarovara cross roads								
			1.00	140.00	5.00	0.25	175.00		
							906.25	1768.08	**1602322.50**
18	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)								
	Road Portion	Cum							
	ch 400-450		1.00	50.00	6.50	--	325.00		
	ch 1265-1465		1.00	400.00	6.50	--	2600.00		
	Hebbal sarovara cross roads								
			1.00	140.00	5.00	--	700.00		
							3625.00	27.56	**99905.00**
19	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)								
	Road Portion	Sqm							
	ch 0-500		1	500.00	6.50	--	3250.00		
	ch 500-1000		1	500.00	6.50		3250.00		
	ch 1000-1500		1	500.00	6.50	--	3250.00		
	ch 1500-1980		1	480.00	6.50	--	3120.00		
	Hebbal sarovara cross roads		1	150.00	5.00	--	750.00		
			1.00	140.00	5.00	--	700.00		
	Deduct prime coat for Bad Reaches						-3625.00		
							10695.00	3.18	**34010.10**
20	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)								
	For Laying DBM/ Profile Correction	Sqm							
	ch 250-300		1	50.00	6.50	--	325.00		
	ch 400-450		1.00	50.00	6.50	--	325.00		
	ch 1265-1465		1.00	400.00	6.50	--	2600.00		
	Profile Correction								
	ch 0-500		1.00	150.00	1.80	--	270.00		
	ch 500-1000		1.00	120.00	2.10	--	252.00		
	ch 1000-1500		1.00	120.00	2.10	--	252.00		
	ch 1500-1980		1.00	120.00	2.00	--	240.00		
	For Laying BC								

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
	ch 0-500		1.00	500.00	6.50	--	3250.00		
	ch 500-1000		1.00	500.00	6.50	--	3250.00		
	ch 1000-1500		1.00	500.00	6.50	--	3250.00		
	ch 1500-1980		1.00	480.00	6.50	--	3120.00		
	Hebbal sarovara cross roads		1.00	150.00	5.00	--	750.00		
			1.00	140.00	5.00	--	700.00		
	For Bell Mouth at Cross road Approach		8.00	5.00	6.00	--	240.00		
							18824.00	11.66	**219487.84**
21	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 (P.No.163 I.No. 21.17.6 of PW,P&IWTD S.R 2016-17)								
	For Laying DBM/ Profile Correction	Cum							
	ch 250-300		1.00	50.00	6.50	0.05	16.25		
	ch 400-450		1.00	50.00	6.50	0.05	16.25		
	ch 1265-1465		1.00	400.00	6.50	0.05	130.00		
	Profile Correction								
	ch 0-500		1.00	150.00	1.80	0.05	13.50		
	ch 500-1000		1.00	120.00	2.10	0.05	12.60		
	ch 1000-1500		1.00	120.00	2.10	0.05	12.60		
	ch 1500-1980		1.00	120.00	2.00	0.05	12.00		
							213.20	6435.26	**1371997.43**
22	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)								
	For Laying BC	Cum							
	ch 0-500		1.00	500.00	6.50	0.04	130.00		
	ch 500-1000		1.00	500.00	6.50	0.04	130.00		
	ch 1000-1500		1.00	500.00	6.50	0.04	130.00		
	ch 1500-1980		1.00	480.00	6.50	0.04	124.80		
	Hebbal sarovara cross roads		1.00	150.00	5.00	0.04	30.00		
			1.00	140.00	5.00	0.04	28.00		
	For Bell Mouth at Cross road Approach		8.00	5.00	6.00	0.04	9.60		
							582.40	7270.54	**4234362.50**
23	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)								
	Centre line		0.5	1980.00	0.15	--	148.50		

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
	Edge line		2	2270.00	0.15	--	681.00		
							829.50	542.72	**450186.24**
							Total Construction Cost		**19505990.834**
24	Add cost of **Waste Plastic** @ 8% of Bitumen weight								
	Bitumen = 141 kg/cum		--	--	--	--	**6569.47**	27.00	**177376.00**
	Waste =582.40 X 141 X 8 / 100 = 6569.47								
25						**Cost towards Preparation of DPR LS**				**117036.00**
26						**Cost towards PMC / Third Party inspection LS**			**195060.00**
								Sub Total	**19995462.83**
27						**Miscellaneous and rounding off**			**4537.17**
								Total	**20000000.00**

Certificate.

1 The workspot was inspected and work is found to be necessary.
2 The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
4 The provisions made in the estimate are necessary and essential.

For Tejus Consultants

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P..
Bangalore.

Executive Engineer

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

Technical Sanction
Accorded For 200.00 lakh Rs.
Head of A/C P3158
CER NO : 161 **Dt:** 01/03/17

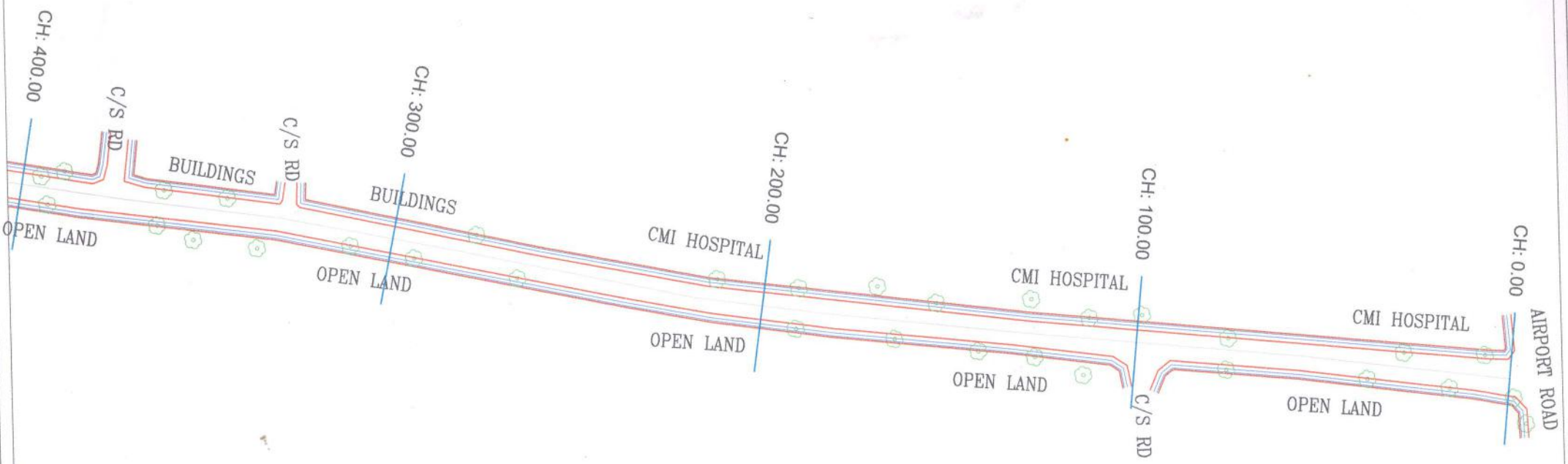
TA

CE (YNK)

EXISTING VIEWS LINK ROAD

BRUHAT BANGALORE MAHANAGARA PALIKE

IMPROVEMENTS TO ROAD AND DRIANS FROM NATIONAL HIGHWAY (AIRPORT ROAD) NEAR MILITARY FARM UPTO AMCO LAYOUT IN KODIGEHALLI WARD NUMBER 8,



NOTE:-

1. ALL DIMENSION & LEVELS ARE Mts. UNLESS OTHERWISE MENTIONED.

DATE	No. OF PRINTS	PRINTS ISSUED TO	SIGN

DATE	REVISION	DESCRIPTIONS	SIGN

LEGEND:-

Road
Drain
Contour
Levels
Power line
Telephone pole
Street light
Electric pole
Tree
Building
Bore Well
Drain level
Compound Wall
Culvert
Coconut Tree
Road level

CONSULTANT:

TEJUS CONSULTANTS

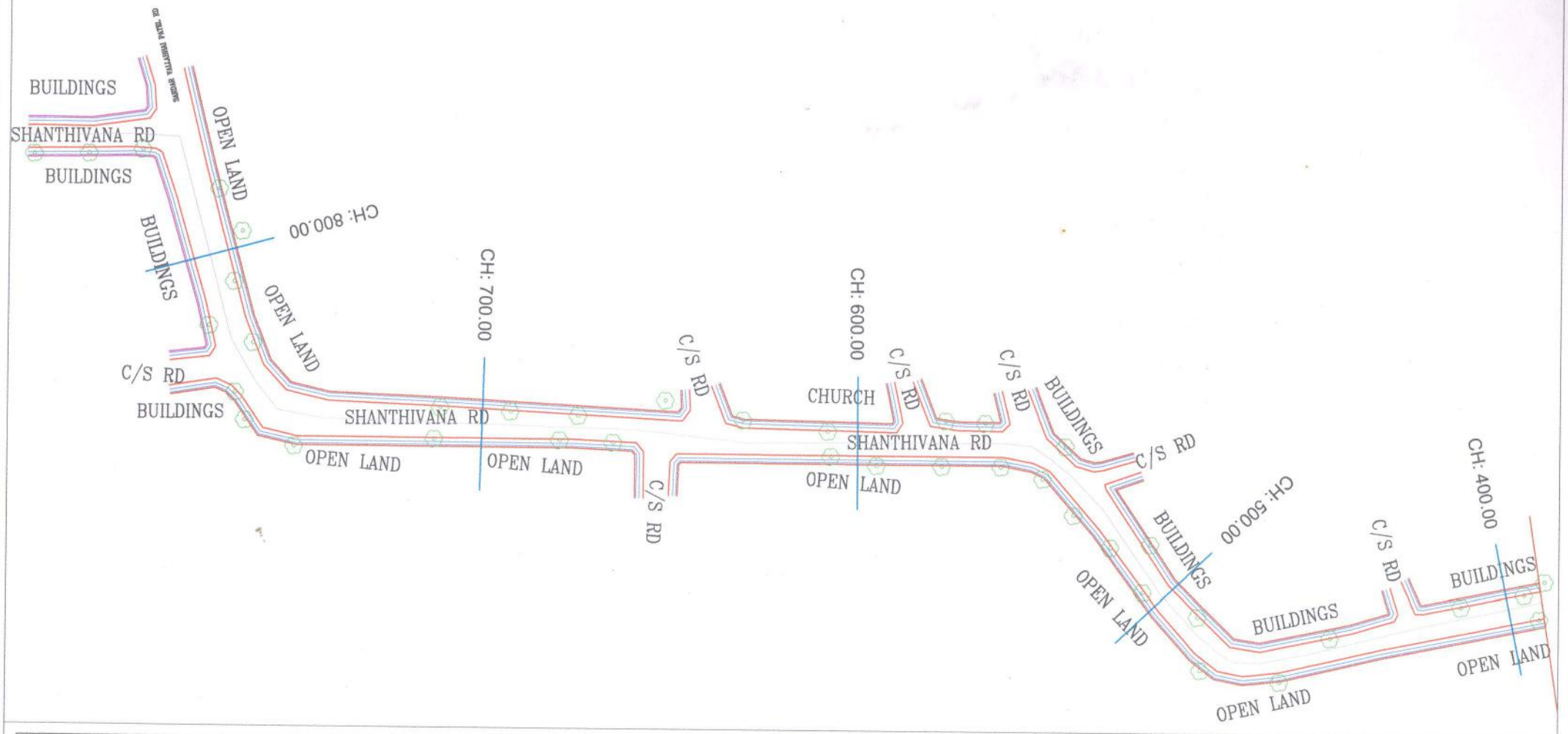
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Baseveshwaranagar
Bangalore-560079
TEL: 080 - 23287532
email : tejusconsultants@gmail.com

TITLE: STRIP PLAN

1/5

BRUHAT BANGALORE MAHANAGARA PALIKE

IMPROVEMENTS TO ROAD AND DRIANS FROM NATIONAL HIGHWAY (AIRPORT ROAD) NEAR MILITARY FARM UPTO AMCO LAYOUT IN KODIGEHALLI WARD NUMBER 8,



NOTE:-

1. ALL DIMENSION & LEVELS ARE Mts. UNLESS OTHERWISE MENTIONED.

DATE	No. OF PRINTS	PRINTS ISSUED TO	SIGN

DATE	REVISION	DESCRIPTIONS	SIGN

LEGEND:-

Road
Drain
Contour
Levels
Power line
Telephone pole
Street light
Electric pole
Tree
Building
Bore Well
Drain level
Compound wall
Culvert
Coconut Tree
Road level

CONSULTANT:

TEJUS CONSULTANTS

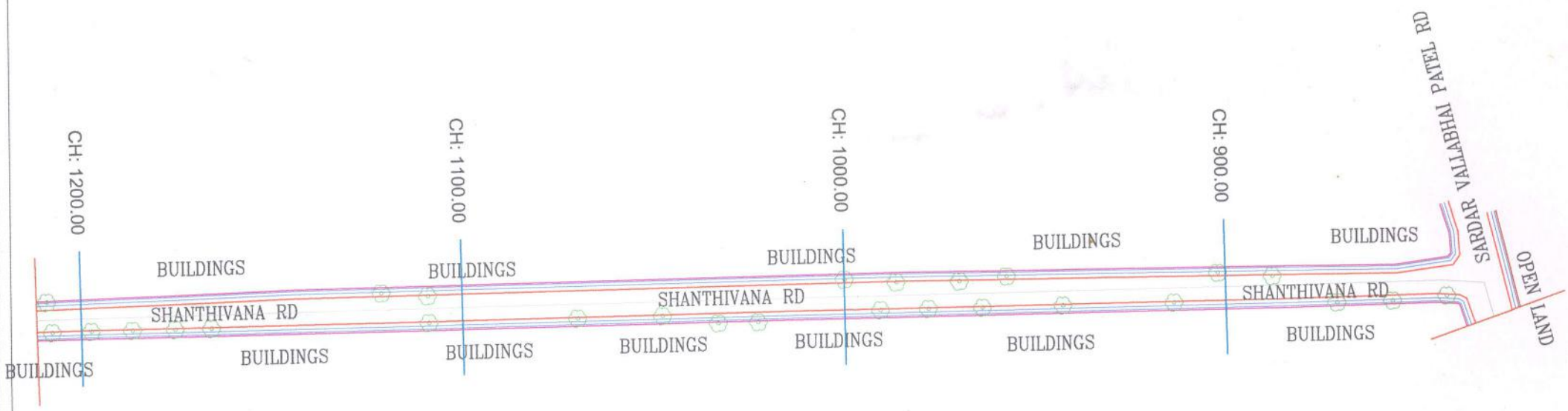
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
TEL: 080 - 23287532
email: tejusconsultants@gmail.com

TITLE: STRIP PLAN

2/5

BRUHAT BANGALORE MAHANAGARA PALIKE

IMPROVEMENTS TO ROAD AND DRIANS FROM NATIONAL HIGHWAY (AIRPORT ROAD) NEAR MILITARY FARM UPTO AMCO LAYOUT IN KODIGEHALLI WARD NUMBER 8,



NOTE:-

1. ALL DIMENSION & LEVELS ARE Mts. UNLESS OTHERWISE MENTIONED

DATE	No. OF PRINTS	PRINTS ISSUED TO	SIGN

DATE	REVISION	DESCRIPTIONS	SIGN

LEGEND:-

Road
Drain
Contour
Levels
Power line
Telephone pole
Street light
Electric pole
Tree
Building
Bore Well
Drain level
Compound wall
Culvert
Coconut Tree
Road level

CONSULTANT:

TEJUS CONSULTANTS

No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
TEL: 080 - 23287532
email: tejusconsultants@gmail.com

TITLE:

STRIP PLAN

3/5

BRUHAT BANGALORE MAHANAGARA PALIKE

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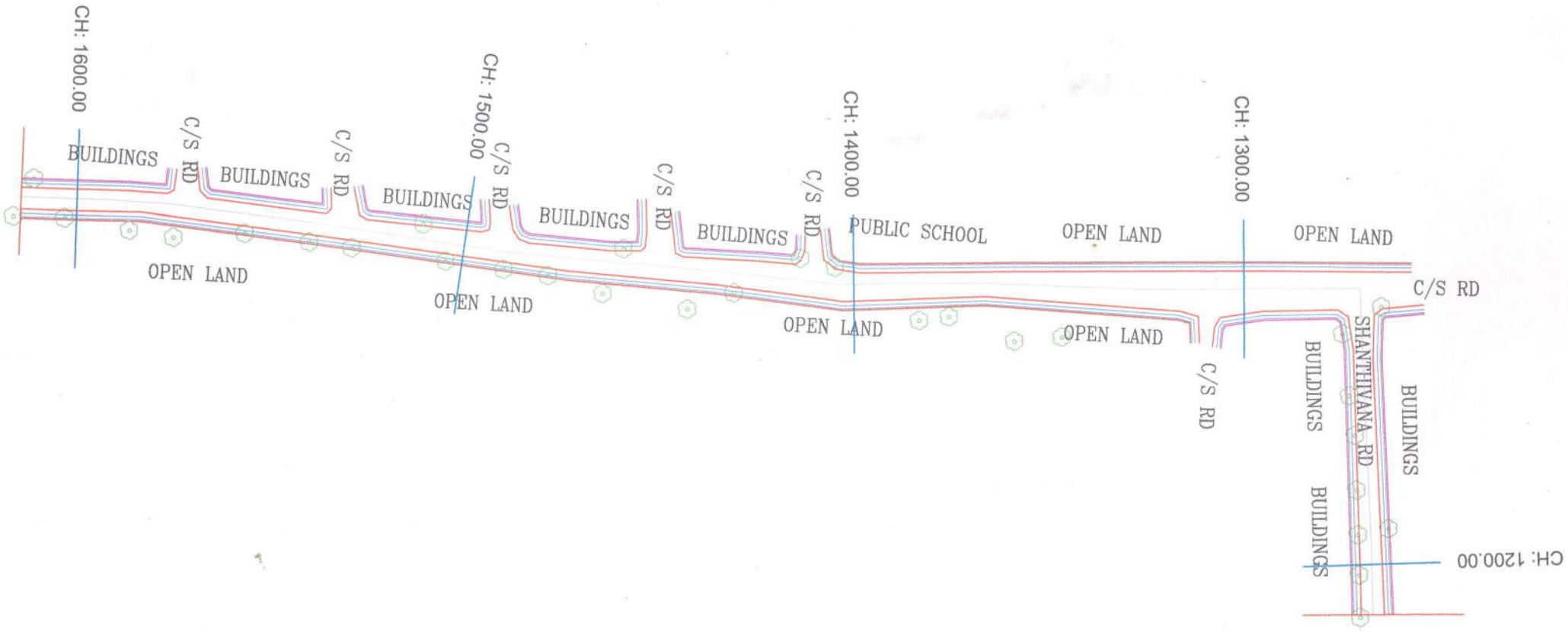

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DATE	No. OF PRINTS	PRINTS ISSUED TO	SIGN

DATE	REVISION	DESCRIPTIONS	SIGN

LEGEND:-

Road
Drain
Contour Levels
Power line
Telephone pole
Street light
Electric pole
Tree
Building
Bore Well
Drain level
Compound wall
Culvert
Coconut Tree
Road level

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TITLE:

STRIP PLAN

4/5

BRUHAT BANGALORE MAHANAGARA PALIKE

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NOTE:-

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DATE	No. OF PRINTS	PRINTS ISSUED TO	SIGN

DATE	REVISION	DESCRIPTIONS	SIGN

LEGEND:-

Road
Drain
Contour
Levels
Power line
Telephone pole
Street light
Electric pole
Tree
Building
Bore Well
Drain level
Compound wall
Culvert
Coconut Tree
Road level

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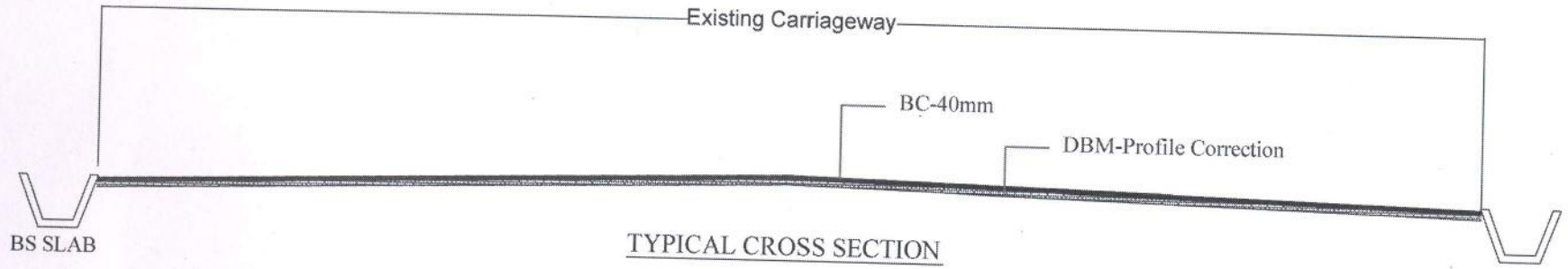
TITLE:

STRIP PLAN

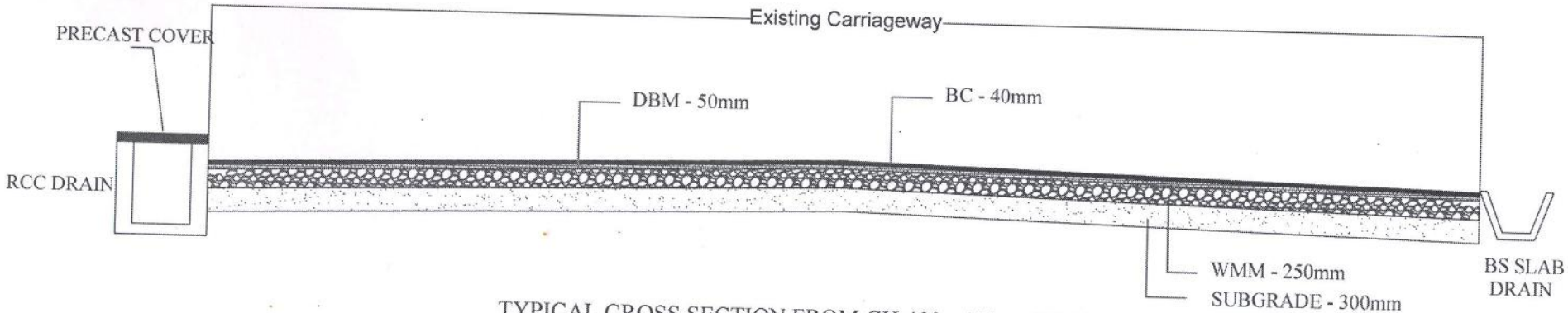
5/5

BRUHAT BANGALORE MAHANAGARA PALIKE

IMPROVEMENTS TO ROAD AND DRIANS FROM NATIONAL HIGHWAY (AIRPORT ROAD) NEAR MILITARY FARM UPTO AMCO LAYOUT IN KODIGEHALLI WARD NUMBER 8,



TYPICAL CROSS SECTION



TYPICAL CROSS SECTION FROM CH:400 - 450m, CH:1265 - 1465m

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TYPICAL CROSS SECTION